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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/732,712		12/11/2003	Tieyu Zheng	P17132	2060	
25694	7590	07/13/2005		EXAMINER		
INTEL CO	-	ΓION	DUPUIS, I	DUPUIS, DEREK L		
P.O. BOX 5326 SANTA CLARA, CA 95056-5326				ART UNIT	PAPER NUMBER	
,				2883		
				DATE MAILED: 07/13/200	DATE MAILED: 07/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/732,712	ZHENG, TIEYU				
		Examiner	Art Unit				
		Derek L. Dupuis	2883				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the o	correspondence address				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rep p period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirnly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	mely filed ys will be considered timely. It the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	<u>_</u>					
2a) <u></u> □	This action is FINAL . 2b)⊠ This	s action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
4)⊠	☑ Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdra	wn from consideration.					
5)	Claim(s) is/are allowed.	·	•				
· •	Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.							
8)⊠	Claim(s) <u>1-20</u> are subject to restriction and/or	election requirement.					
Applicat	ion Papers	•					
9)[The specification is objected to by the Examine	er.					
10)[☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
445	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority (ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documen	• •					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	nt(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)/Mail D	Pate Patent Application (PTO-152)				
	er No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species A, shown in figures 5-7 is drawn to a method of welding using a first electrode in contact with a metal cap and a second electrode in contact with a bottom surface of an insulating substrate wherein the second electrode is in contact with metallic vias that pass through the substrate which are in contact with a metal layer.

Species B, shown in figures 8-13 is drawn to a method of welding using a first electrode in contact with a metal cap and a second electrode in direct contact with a metal layer (not through metallic vias in the insulator substrate).

Sub-species C, shown in figure 8 is a Sub-Species of Species B drawn to a method of welding where the second electrode is concentric about the metal layer.

Sub-species D, shown in figures 9-11 is a Sub-Species of Species B drawn to a method of welding where the second electrode comprises multiple "fingers" that contact the metal layer at various distinct points.

Sub-species E, shown in figure 12 is a Sub-Species of Species B drawn to a method of welding where the second electrode comprises multiple fingers that surround and form a perimeter about the metal layer.

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Sub-species F, shown in figure 13 is a Sub-Species of Species B drawn to a method of welding where the second electrode comprises multiple fingers that are attached to the sidewalls of the insulator substrate.

Species G, drawn to a rectangular or square shaped cap and substrate (see page 10, lines 30-31).

Species H, drawn to a circular, oval, or curved shaped cap and substrate (see page 10, lines 30-31).

Applicant must elect the following:

One of either Species A or Species B, AND one of either Species G or Species H.

Furthermore, should applicant elect Species B, applicant must further elect one of Sub-Species C, D, E, or F.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Derek L. Dupuis whose telephone number is (571) 272-3101. The examiner can normally be reached on Monday - Friday 8:30am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DID

Frank G. Font
Supervisory Patent Examiner
Technology Center 2800